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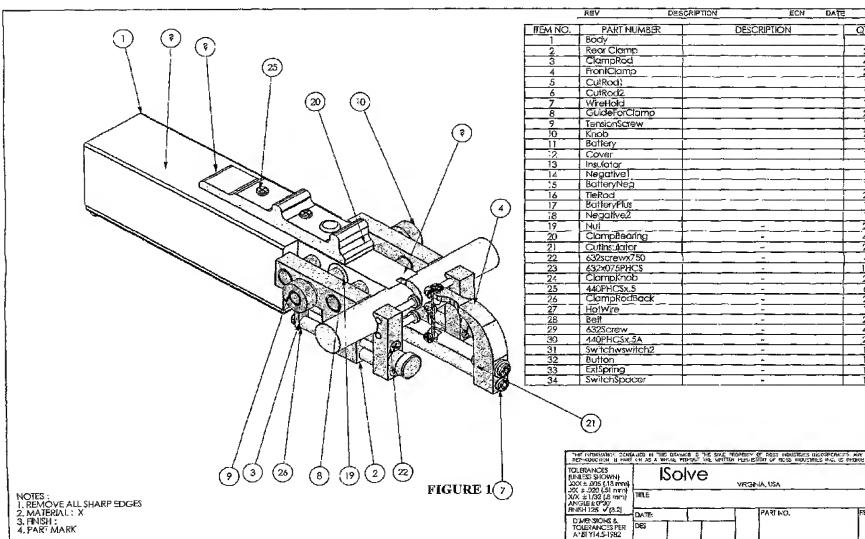
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(54) Title: BELT WELDING APPARATUS AND METHOD



(57) Abstract: Apparatus and method are disclosed for the welding of thermoplastic endless belts (28). Direct current is passed through a ni-chrome wire (27) to produce enough heat such that the thermoplastic melting point of the belt material is reached. The wire is mechanically moved through the abutting thermoplastic belt. The free ends being welded are securely held together with clamping members (2) and (4). In another embodiment a ni-chrome ribbon (54) is embedded in an electrically insulated screen to produce a heated planar surface. The invention is particularly suitable for the welding of polyurethane thermoplastic belts. Because the invention is hand held and it uses battery power, it is especially adapted for welding belts in the food processing industry.

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